WHAT IS CLAIMED IS:

- 1 1. A method of selectively engaging or penetrating a layer of a luminal organ wall, the luminal
- organ wall having a plurality of layers including an outermost layer and an innermost layer
- adjacent to the lumen of the organ, comprising the steps of:
- a) selecting one of the plurality of layers of the organ wall other than the innermost layer;
- 5 and
- b) deploying from within the lumen of the organ a tissue device through the innermost layer
- 7 to a specific depth to engage or penetrate the selected one of the plurality of layers.
- 1 2. The method of selectively engaging or penetrating a layer of a luminal organ wall of claim 1,
- 2 further comprising the step of smoothing the innermost layer of the luminal organ wall prior
- 3 to step b).
- 1 3. The method of selectively engaging or penetrating a layer of a luminal organ wall of claim 1,
- 2 further comprising the step of manipulating the innermost layer of the luminal organ wall to
- 3 create a substantially flat, single-thickness layer near the desired site of deployment of the
- 4 tissue device prior to step b).
- 1 4. The method of selectively engaging or penetrating a layer of a luminal organ wall of claim 2,
- or 3, wherein another organ is adjacent to the desired site of deployment of the tissue device
- and further comprising means for creating a gap between the another organ and the desired
- 4 site of the tissue device prior to step b).

- 1 5. The method of selectively engaging or penetrating a layer of a luminal organ wall of claim 4,
- wherein the step of creating a gap includes the steps of:
- 3 i) deploying a tissue device through the innermost layer to one of the other of the
- 4 plurality of layers of the organ wall; and
- 5 ii) moving the deployed tissue device away from the another organ to create a gap
- between the another organ and the desired site of the tissue device.
- 1 6. The method of selectively engaging or penetrating a layer of a luminal organ wall of claim 2
- or 3, wherein step a) includes selecting the outermost layer.
- 7. The method of selectively engaging or penetrating a layer of a luminal organ wall of claim 1,
- wherein step b) includes bringing a deployment mechanism in close contact with the
- 3 innermost layer from within the lumen of the organ and deploying from the deployment
- 4 mechanism a tissue device through the innermost layer to a specific depth to engage or
- 5 penetrate the selected one of the plurality of layers.
- 1 8. The method of selectively engaging a layer of claim 1, 2, 3, 5, or 7, wherein the organ is a
- stomach having a wall with at least three layers including an innermost layer or mucosa,
- muscularis, and outermost layer or serosa and step a) includes selecting one of the muscularis
- 4 and the outermost layer of the stomach wall.

- 1 9. The method of selectively engaging or penetrating a layer of a luminal organ wall of claim 8,
- wherein the innermost layer smoothing or manipulation step includes one of moving the
- mucosa relative to the underlying muscularis, pressing the mucosa against the muscularis,
- 4 and distending the stomach wall via insufflation to smooth the innermost layer or mucosa.
- 1 10. The method of selectively engaging or penetrating a layer of a luminal organ wall of claim 1,
- 2, 3, 5, or 7, further comprising the step of measuring a electrical impedance at multiple
- 3 locations within the wall and choosing the specific depth based on the impedance data and
- step b) includes deploying from within the lumen of the organ a tissue device through the
- 5 innermost layer to the chosen specific depth to engage or penetrate the selected one of the
- 6 plurality of layers.
- 1 11. The method of selectively engaging or penetrating a layer of a luminal organ wall of claim 1,
- 2 2, 3, 5, or 7, wherein the step b) includes the steps of:
- 3 i) periodically measuring a electrical impedance at a tissue engaging element; and
- 4 ii) deploying a tissue device through the innermost layer toward the outermost layer of
- 5 the organ wall until the measured electrical impedance is about equal to a desired
- 6 value.
- 1 12. The method of selectively engaging or penetrating a layer of a luminal organ wall of claim 1,
- 2, 3, 5, 7, or 9, wherein said tissue device includes one of a securement and anchoring device.

- 1 13. The method of selectively engaging or penetrating a layer of a luminal organ wall of claim 4,
- 2 wherein the depth of the gap is in the range of about 1 to 20 mm and the angle of the sides of
- 3 the gap relative to the normal to the outer surface at a prior point of engagement to the
- 4 another organ is in the range of about 0 to 75 degrees.

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- 1 14. The method of selectively engaging or penetrating a layer of a luminal organ wall of claim 4,
- wherein the depth of the gap and the angle of the sides of the gap are such that they make it
- less likely that the another organ will conform to, and thereby fill in, the gap.
- 1 15. The method of selectively engaging or penetrating a layer of a luminal organ wall of claim 1,
- 2, 3, 5, 7, or 9, wherein the tissue device one of incorporates and makes a path for the
- advancement of one of a securement device, an anchoring device, an implantable device, an
- 4 electrode, and a conduit for the passage of a fluid, materials or device.
- 1 16. The method of selectively engaging or penetrating a layer of a luminal organ wall of claim 1,
- 2, 3, 5, 7, or 9, further comprising the step of repeating step b) sequentially or simultaneously
- 3 to releasably engage at least a first region and second region of the wall and approximating
- 4 the first and second regions.
- 1 17. The method of selectively engaging or penetrating a layer of a luminal organ wall of claim 1,
- 2, 3, 5, 7, or 9, further comprising the steps of approximating said two regions of the organ
- wall and performing step b) to deploy one or more securement elements to secure the two
- 4 regions together.

1 18. The method of selectively engaging or penetrating a layer of a luminal organ wall of claim

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- 2 17, wherein the regions comprise a segment of the anterior organ wall and a segment of the
- 3 posterior organ wall and the approximation and securement creates one of a pouch, partition
- 4 and restriction.
- 1 19. The method of selectively engaging or penetrating a layer of a luminal organ wall of claim
- 2 17, wherein said securement elements are comprised of a single suture deployed sequentially
- 3 through the region.
- 20. The method of selectively engaging or penetrating a layer of a luminal organ wall of claim
- 2 17, further comprising the step of positioning a biocompatible material between the apposing
- 3 surfaces of the approximated regions and performing step b) to deploy one or more
- securement elements to secure the two regions and biocompatible material together.
- 1 21. The method of selectively engaging or penetrating a layer of a luminal organ wall of claim 1,
- 2 2, 3, 5, 7, or 9, further comprising the step of performing step b) to attach a first section of a
- 3 biocompatible material along a first region of the wall and a second section of the material
- along a second region of the wall to form a partition across the organ's lumen.

- 22. An apparatus for selectively engaging or penetrating a layer of a luminal organ wall, the
- 2 luminal organ wall having a plurality of layers including an outermost layer and an innermost
- 3 layer adjacent to the lumen of the organ, the apparatus comprising means for deploying from
- 4 within the lumen of the organ a tissue device through the innermost layer to a specific depth
- 5 to engage or penetrate the selected one of the plurality of layers.
- 1 23. The apparatus for selectively engaging or penetrating a layer of a luminal organ wall of claim
- 2 22, further comprising means for smoothing the innermost layer of the luminal organ wall.
- 1 24. The apparatus for selectively engaging or penetrating a layer of a luminal organ wall of claim
- 2 22, further comprising means for manipulating the innermost layer of the luminal organ wall
- 3 to create a substantially flat, single-thickness layer near the desired site of deployment of the
- 4 tissue device.
- 1 25. The apparatus for selectively engaging or penetrating a layer of a luminal organ wall of claim
- 2 23 or 24, wherein another organ is adjacent to the desired site of deployment of the tissue
- device and further comprising means for creating a gap between the another organ and the
- 4 desired site of deployment of the tissue device.

- 1 26. The apparatus for selectively engaging or penetrating a layer of a luminal organ wall of claim
- 2 25, wherein the mean for creating a gap includes:
- 3 i) means for deploying a tissue device through the innermost layer to one of the other of
- 4 the plurality of layers of the organ wall; and
- 5 ii) means for moving the deployed tissue device away from the another organ to create a
- 6 gap between the another organ and the desired site of deployment of the tissue device.
- 1 27. The apparatus for selectively engaging or penetrating a layer of a luminal organ wall of claim
- 2 23 or 24, wherein the outermost layer is the selected layer.
- 1 28. The apparatus for selectively engaging or penetrating a layer of a luminal organ wall of claim
- 2 22, 23, 24, or 26, wherein the deployment means includes means for bringing the deployment
- means in close contact with the innermost layer from within the lumen of the organ and
- 4 means for deploying from the deployment means the tissue device through the innermost
- 5 layer to a specific depth to engage or penetrate the selected one of the plurality of layers.
- 1 29. The apparatus for selectively engaging a layer of claim 22, 23, 24, or 26, wherein the organ is
- a stomach having a wall with at least three layers including an innermost layer or mucosa,
- muscularis, and outermost layer or serosa and one of the muscularis and the outermost layer
- 4 of the stomach wall is selectively engaged.

1 30. The apparatus for selectively engaging or penetrating a layer of a luminal organ wall of claim

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- 2 29, wherein the innermost layer smoothing or manipulation means includes means for one of
- moving the mucosa relative to the underlying muscularis, pressing the mucosa against the
- 4 muscularis, and distending the stomach wall via insufflation to smooth the innermost layer or
- 5 mucosa.
- 1 31. The apparatus for selectively engaging or penetrating a layer of a luminal organ wall of claim
- 2 22, 23, 24, or 26, further comprising means for measuring a electrical impedance at multiple
- 3 locations within the wall and choosing the specific depth based on the impedance data and
- 4 the means for deploying includes means for deploying from within the lumen of the organ a
- tissue device through the innermost layer to the chosen specific depth to engage or penetrate
- 6 the selected one of the plurality of layers.
- 1 32. The apparatus for selectively engaging or penetrating a layer of a luminal organ wall of claim
- 2 22, 23, 24, or 26, wherein the means for deploying includes:
- 3 i) means for periodically measuring a electrical impedance at a tissue engaging element;
- 4 and
- 5 ii) means for deploying a tissue device through the innermost layer toward the outermost
- 6 layer of the organ wall until the measured electrical impedance is about equal to a
- desired value.

- 1 33. The apparatus for selectively engaging or penetrating a layer of a luminal organ wall of claim
- 2 22, 23, 24, 26, or 30, wherein said tissue device includes one of a securement and anchoring
- device.
- 1 34. The apparatus for selectively engaging or penetrating a layer of a luminal organ wall of claim
- 2 25, wherein the depth of the gap is in the range of about 1 to 20 mm and the angle of the
- 3 sides of the gap relative to the normal to the outer surface at a prior point of engagement to
- 4 the another organ is in the range of about 0 to 75 degrees.
- 1 35. The apparatus for selectively engaging or penetrating a layer of a luminal organ wall of claim
- 2 25, wherein the depth of the gap and the angle of the sides of the gap are such that they
- makes it less likely that the another organ will conform to, and thereby fill in, the gap.
- 1 36. The apparatus for selectively engaging or penetrating a layer of a luminal organ wall of claim
- 2 22, 23, 24, 26, or 30, wherein the tissue device one of incorporates and makes a path for the
- 3 advancement of one of a securement device, an anchoring device, an implantable device, an
- 4 electrode, and a conduit for the passage of a fluid, materials or device.
- 1 37. The apparatus for selectively engaging or penetrating a layer of a luminal organ wall of claim
- 2 22, 23, 24, 26, or 30, further comprising means for employing the means for deploying
- 3 sequentially or simultaneously to releasably engage at least a first region and second region
- 4 of the wall and approximating the first and second regions.

- 1 38. The apparatus for selectively engaging or penetrating a layer of a luminal organ wall of claim
- 2 22, 23, 24, 26, or 30, further comprising means for approximating said two regions of the
- organ wall and employing the means for deploying to deploy one or more securement
- 4 elements to secure the two regions together.
- 1 39. The apparatus for selectively engaging or penetrating a layer of a luminal organ wall of claim
- 2 38, wherein the regions comprise a segment of the anterior organ wall and a segment of the
- 3 posterior organ wall and the approximation and securement creates one of a pouch, partition
- 4 and restriction.
- 1 40. The apparatus for selectively engaging or penetrating a layer of a luminal organ wall of claim
- 2 38, wherein said securement elements are comprised of a single suture deployed sequentially
- 3 through the region.
- 1 41. The apparatus for selectively engaging or penetrating a layer of a luminal organ wall of claim
- 2 38, further comprising means for positioning a biocompatible material between the apposing
- 3 surfaces of the approximated regions and employing the means for deploying to deploy one
- 4 or more securement elements to secure the two regions and biocompatible material together.

- 42. The apparatus for selectively engaging or penetrating a layer of a luminal organ wall of claim
- 2 22, 23, 24, 26, or 30, further comprising means for employing the means for deploying to
- attach a first section of a biocompatible material along a first region of the wall and a second
- 4 section of the material along a second region of the wall to form a partition across the organ's
- 5 lumen.
- 1 43. The apparatus for selectively engaging or penetrating a layer of a luminal organ wall of claim
- 2 22, 23, 24, 26, or 30, wherein the one of the tissue penetration element and the tissue
- 3 engaging mechanism includes one of a hook, barb, harpoon, straight, curved needle, and
- 4 blade, helical wireform and needle, and a forked element.
- 1 44. The apparatus for selectively engaging or penetrating a layer of a luminal organ wall of claim
- 2 38, wherein the means for approximating includes a pair of moveable pieces in hinged
- relationship, each moveable piece being associated with one of the tissue penetration element
- 4 and the tissue engaging mechanism, said moveable pieces being substantially apart during
- 5 engagement of the wall by the one of the tissue penetration element and the tissue engaging
- 6 mechanism, and then moved together to approximate the regions of the wall.
- 1 45. The apparatus for selectively engaging or penetrating a layer of a luminal organ wall of claim
- 2 44, wherein the means for approximating further includes one of a pull-wire and pneumatic
- actuator that when activated move the moveable pieces together.

- 1 46. The apparatus for selectively engaging or penetrating a layer of a luminal organ wall of claim
- 2 45, further comprising means for modifying the organ wall regions to minimize the amount
- 3 of dilation that can occur.
- 1 47. The apparatus for selectively engaging or penetrating a layer of a luminal organ wall of claim
- 2 46, wherein the means for modifying the organ wall regions includes means for damaging or
- removing one of the innermost layer and another one of the plurality of layers of the wall.
- 48. The apparatus for selectively engaging or penetrating a layer of a luminal organ wall of claim
- 46, wherein the means for damaging or removing includes one of chemical ablation, thermal
- 3 ablation, radio frequency treatment, microwave treatment, injection of a sclerosing agent,
- 4 cryotherapy, and mechanical debridement.